

What is claimed is

1. A focusing mechanism of scanner includes:

a case, which is a shell case;

a manuscript plate, which is transparent on the case;

5 a cover, which is connected on the case and can be used to cover the manuscript plate;

and an optical device, which is inside the case and includes plural reflection mirrors;

10 the image from the reflection of the light emitted from the light tube to a scanned object is reflected by plural reflection mirrors, and then goes through the focusing of a set of lenses makes image in a charge couple device to make the charge couple device generating induced voltage;

15 the characteristic is : the angle of at least one reflection mirror in the plural reflection mirrors should be adjustable to adjust the clarity of the image in the charge couple device.

2. A focusing mechanism of scanner as claimed in claim 1, wherein a test chart is set in an appropriate position in scanner, and the scanned object is the test chart.

20 3. A focusing mechanism of scanner as claimed in claim 1, wherein the test chart is a black and white spaced in-between chart.

4. A focusing mechanism of scanner as claimed in claim 1, wherein the optical device includes a case and a light tube. The reflection mirror with the angle adjustable is connected to the case and the light tube offers the light source for optical device scanning.

25 5. A focusing mechanism of scanner as claimed in claim 1, wherein the plural reflection mirrors include a first reflection mirror, a second reflection mirror and a third reflection mirror according to the light pathway in order, and there is at least one adjusting wheel set on one end at one of the reflection mirrors to adjust the angle of the reflection mirror.

30 6. A focusing mechanism of scanner as claimed in claim 1, wherein the

plural reflection mirrors include a first reflection mirror, a second reflection mirror and a third reflection mirror according to the light pathway in order, and there is an adjusting wheel on one end of the first reflection mirror to adjust the angle of the reflection mirror.

- 5 7. A focusing mechanism of scanner as claimed in claim 5, wherein the adjusting wheel uses a feedback circuit to receive the feedback induced voltage from the charge couple device to control the rotating angle of the reflection mirror.
- 10 8. A focusing mechanism of scanner as claimed in claim 6, wherein the adjusting wheel uses a feedback circuit to receive the feedback induced voltage from the charge couple device to control the rotating angle of the reflection mirror.
- 15 9. A focusing method of scanner, wherein the scanner includes a light tube offering the light source, an optical device with plural reflection mirrors and a charge couple device, and the focusing methods includes the following steps:
 - (a) the light tube emits the light to illuminate the scanned object to generate an image;
 - 20 (b) using the optical device to receive the image and reflecting the image to the charge couple device to transfer to photo-voltage.
 - (c) adjusting the angle of at least one of the reflection mirrors inside the optical device until the photo-voltage of the charge couple device reaches a default value.
- 25 10. A focusing method of scanner as claimed in claim 9, wherein the scanned object is a test chart, which has black and white strips spaced in-between.
11. A focusing method of scanner as claimed in claim 9, wherein the test chart is inside the case of the scanner.
12. A focusing method of scanner as claimed in claim 9, wherein the light tube is inside the optical device.
- 30 13. A focusing method of the scanner as claimed in claim 9, wherein the optical device includes a lens, wherein the arrangement of the angle and

the position, the plural reflection mirrors can make the reflection image in the charge couple device through the lens.

5 14. A focusing method of scanner as claimed in claim 13 wherein the plural reflection mirrors include a first reflection mirror, a second reflection mirror and a third reflection mirror according to the light pathway in order, and in the step (c), the adjustment of the angle of the reflection mirror is the best to do with the first reflection mirror.

10 15. A focusing method of scanner as claimed in claim 9 wherein the adjustment of the angle of the reflection mirror inside the optical device is done by hand.

15 16. A focusing method of scanner as claimed in claim 9 wherein the scanner includes a feedback circuit, and the feedback circuit can adjust the angle of the reflection mirror according to the feedback voltage from the charge couple device.